ONLINE SEARCH REQUEST FORM

USER Jeffre, E. Russet SERIAL NUMBER 08/295.

ART UNIT 1811 PHONE 308-3975

DATE 1995

Please give a detailed statement of requirements. Describe as specifically as possible the subject matter to be searched. Define any terms that may have special meaning. Give examples or relevant citations, authors, or keywords, if known.

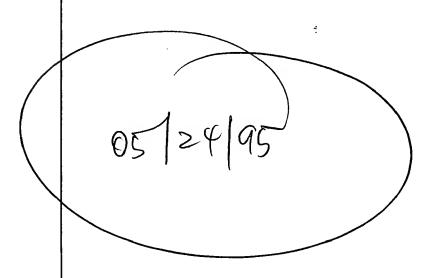
You may include a copy of the broadest and or relevant claim(s).

Please search the attached general formula (I) without worrying about the identity of A, A, B, C, or D.

If there are nany hits, please narrow by specifying these substituents.

Mark you.

FOR OFFICIAL USE ONLY

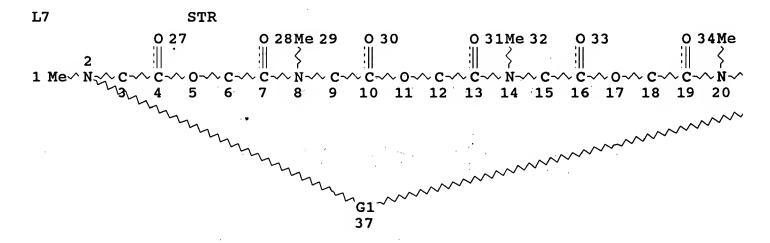


=> fil reg; d stat que 19
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STRUCTURE FILE UPDATES: 24 MAY 95 HIGHEST RN 163180-39-0 DICTIONARY FILE UPDATES: 24 MAY 95 HIGHEST RN 163180-39-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 1995

Please note that search-term pricing does apply when conducting SmartSELECT searches.



Page 1-B
REP G1=(0-2) C
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 37

STEREO ATTRIBUTES: NONE
L9 81 SEA FILE=REGISTRY SSS FUL L7

100.0% PROCESSED 205 ITERATIONS SEARCH TIME: 00.00.08

81 ANSWERS

=> d reg 19 1-81 1 RN

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		162919-17-7	REGISTRY
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73	RN	150749-53-4 REGISTRY
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75	RN	150749-51-2 REGISTRY
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7 7	RN	64763-82-2 REGISTRY
78	RN	42037-15-0 REGISTRY
79	RN	5686-56-6 REGISTRY
80	RN	4530-22-7 REGISTRY
81	RN	2503-08-4 REGISTRY

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L9 ANSWER 1 OF 81 REGISTRY COPYRIGHT 1995 ACS
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RN 162919-25-7 REGISTRY

CN INDEX NAME NOT YET ASSIGNED

FS PROTEIN SEQUENCE

MF C64 H108 N4 O12

SR CA

L9 ANSWER 5 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 162919-21-3 REGISTRY

CN INDEX NAME NOT YET ASSIGNED

MF C53 H76 Br2 N4 O13

SR CA DES *

L9 ANSWER 10 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 162919-16-6 REGISTRY

CN INDEX NAME NOT YET ASSIGNED

MF C55 H80 N4 O13

SR CA

DES *

L9 ANSWER 15 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 162919-11-1 REGISTRY

CN INDEX NAME NOT YET ASSIGNED

MF C53 H76 I2 N4 O13

SR CA

DES

L9 ANSWER 20 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 162919-04-2 REGISTRY

CN INDEX NAME NOT YET ASSIGNED

MF C51 H82 N4 O12

SR CA

DES

ANSWER 25 OF 81 L9 REGISTRY COPYRIGHT 1995 ACS

RN 162918-99-2 REGISTRY

INDEX NAME NOT YET ASSIGNED CN

FS PROTEIN SEQUENCE

MF C56 H84 N4 O12

SR CA

DES

L9 ANSWER 31 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 161170-63-4 REGISTRY

CN Cyclo[2-hydroxypropanoyl-N-methyl-L-leucyl-3-(4-nitrophenyl)-2-hydroxypropanoyl-N-methyl-L-leucyl-2-hydroxypropanoyl-N-methyl-L-leucyl-3-(4-nitrophenyl)-2-hydroxypropanoyl-N-methyl-L-leucyl] (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C52 H74 N6 O16

SR CA

LC STN Files: CA

DES *

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 122:160697 1: Р

REGISTRY COPYRIGHT 1995 ACS L9 ANSWER 32 OF 81

RN 161119-95-5 REGISTRY

CN Cyclo(hydroxyacetyl-N-methyl-L-leucylhydroxyacetyl-N-methyl-L-leucyl-3-phenyl-2-hydroxypropanoyl-N-methyl-L-leucyl-2-hydroxypropanoyl-N-(CA INDEX NAME)

methyl-L-leucyl) (9CI)

PROTEIN SEQUENCE FS

MF C44 H68 N4 O12

SR CA

LC STN Files: CA

DES

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 122:160697

L9 ANSWER 35 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 161119-92-2 REGISTRY

CN Cyclo(N-methyl-L-alanyl-2-hydroxypropanoyl-N-methyl-L-alanyl-3phenyl-2-hydroxypropanoyl-N-methyl-L-leucyl-2-hydroxypropanoyl-Nmethyl-L-leucyl-3-phenyl-2-hydroxypropanoyl) (9CI) (CA INDEX NAME)

PROTEIN SEQUENCE FS

C46 H64 N4 O12 MF

SR CA

LC STN Files: CA

DES

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 122:160697

L9 ANSWER 40 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 161119-87-5 REGISTRY

CN Cyclo(2-hydroxypropanoyl-N-methyl-L-phenylalanyl-3-phenyl-2-hydroxypropanoyl-N-methyl-L-phenylalanyl-2-hydroxypropanoyl-N-methyl-L-phenylalanyl-3-phenyl-2-hydroxypropanoyl-N-methyl-L-phenylalanyl)
(9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

MF C64 H68 N4 O12

SR CA

LC STN Files: CA

DES *

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 122:160697

L9 ANSWER 43 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 159247-20-8 REGISTRY

CN Cyclo(L-2-hydroxypropanoyl-N-methyl-D-leucyl-3-phenyl-L-2-hydroxypropanoyl-N-methyl-D-leucyl-L-2-hydroxypropanoyl-N-methyl-D-leucyl-3-phenyl-L-2-hydroxypropanoyl-N-methyl-D-leucyl) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C52 H76 N4 O12

SR CA

LC STN Files: CA

DES *

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: 121:301287

L9 ANSWER 44 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 158792-28-0 REGISTRY

CN Cyclo[2-hydroxypropanoyl-N-methylleucyl-3-(4-hydroxyphenyl)-2-hydroxypropanoyl-N-methylleucyl-2-hydroxypropanoyl-N-methylleucyl] (9CI) (CA INDEX NAME)

OTHER NAMES:

CN PF 1022E

MF C52 H76 N4 O13

SR CA

LC STN Files: CA

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 122:104043

L9 ANSWER 45 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 155213-39-1 REGISTRY

CN Cyclo[D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-(3-methoxyphenyl)-D-2-hydroxypropanoyl-N-methyl-L-leucyl-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-(3-methoxyphenyl)-D-2-hydroxypropanoyl-N-methyl-L-leucyl]
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane, cyclic peptide deriv.

FS PROTEIN SEQUENCE

MF C54 H80 N4 O14

SR CA

LC STN Files: CA

DES *

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 121:134806

L9 ANSWER 46 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 155155-40-1 REGISTRY

CN Cyclo[D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-D-2hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2hydroxypropanoyl-N-methyl-L-leucyl], dihydrochloride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane, cyclic peptide deriv.

FS PROTEIN SEQUENCE

MF C56 H86 N6 O12 . 2 Cl H

SR CA

LC STN Files: CA

DES *

CRN (155030-62-9)

● 2 HCl

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 121:134806

L9 ANSWER 47 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 155030-85-6 REGISTRY

CN Cyclo(hydroxyacetyl-N-methyl-L-leucyl-3-(4-methoxyphenyl)-D-2-hydroxypropanoyl-N-methyl-L-leucylhydroxyacetyl-N-methyl-L-leucyl-3-(4-methoxyphenyl)-D-2-hydroxypropanoyl-N-methyl-L-leucyl] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane, cyclic peptide deriv.

FS PROTEIN SEQUENCE

MF C52 H76 N4 O14

SR CA

LC STN Files: CA

DES *

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 121:134806

L9 ANSWER 50 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 155030-82-3 REGISTRY

CN Cyclo[D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-(3-fluorophenyl)-D-2-hydroxypropanoyl-N-methyl-L-leucyl-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-(3-fluorophenyl)-D-2-hydroxypropanoyl-N-methyl-L-leucyl]
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane, cyclic peptide deriv.

FS PROTEIN SEQUENCE

MF C52 H74 F2 N4 O12

SR CA

LC STN Files: CA

DES *

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 121:134806

L9 ANSWER 55 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 155030-77-6 REGISTRY

CN Cyclo[D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-(2,4-dimethoxyphenyl)-D-2-hydroxypropanoyl-N-methyl-L-leucyl-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-(2,4-dimethoxyphenyl)-D-2-hydroxypropanoyl-N-methyl-L-leucyl] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane, cyclic peptide deriv.

FS PROTEIN SEQUENCE

MF C56 H84 N4 O16

SR CA

LC STN Files: CA

DES *

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 121:134806

L9 ANSWER 60 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 155030-72-1 REGISTRY

CN Cyclo[D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-(4-ethoxyphenyl)-D-2-hydroxypropanoyl-N-methyl-L-leucyl-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-(4-ethoxyphenyl)-D-2-hydroxypropanoyl-N-methyl-L-leucyl-]
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane, cyclic peptide deriv.

FS PROTEIN SEQUENCE

MF C56 H84 N4 O14

SR CA

LC STN Files: CA

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 121:134806

REGISTRY COPYRIGHT 1995 ACS L9 ANSWER 65 OF 81

RN 155030-67-4 REGISTRY

Cyclo[D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-CN

(diethylamino) phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-D-2hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(diethylamino)phenyl]-D-2-

hydroxypropanoyl-N-methyl-L-leucyl] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane, cyclic CN peptide deriv.

FS PROTEIN SEQUENCE

C60 H94 N6 O12 MF

SR

LC STN Files: CA

DES

1 REFERENCES IN FILE CA (1967 TO DATE)

121:134806 REFERENCE 1: P

L9 ANSWER 70 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 155030-62-9 REGISTRY

CN Cyclo[D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-

(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-[4-(dimethylamino)phenyl]-D-2-hydroxypropanoyl-N-methyl-D-2-hydroxypropanoy

hydroxypropanoyl-N-methyl-L-leucyl] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane, cyclic peptide deriv.

FS PROTEIN SEQUENCE

MF C56 H86 N6 O12

CI COM

SR CA

LC STN Files: CA

DES *

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 121:134806

L9 ANSWER 73 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 150749-53-4 REGISTRY

CN Cyclo(2-hydroxypropanoyl-N-methylleucyl-2-hydroxypropanoyl-N-methylleucyl-3-phenyl-2-hydroxypropanoyl-N-methylleucyl) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane, cyclic peptide deriv.

OTHER NAMES:

CN PF 1022D

FS PROTEIN SEQUENCE

MF C46 H72 N4 O12

SR CA

LC STN Files: CA

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 119:224429

L9 ANSWER 76 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 133413-70-4 REGISTRY

CN Cyclo(D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-phenyl-D-2-hydroxypropanoyl-N-methyl-L-leucyl-D-2-hydroxypropanoyl-N-methyl-L-leucyl-3-phenyl-D-2-hydroxypropanoyl-N-methyl-L-leucyl) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane, cyclic peptide deriv.

OTHER NAMES:

CN PF 1022

CN PF 1022A

FS PROTEIN SEQUENCE

MF C52 H76 N4 O12

SR CA

LC STN Files: BIOBUSINESS, BIOSIS, CA, CASREACT, DRUGUPDATES, MEDLINE, PHAR, PNI, RTECS*, TOXLIT, USPATFULL (*File contains numerically searchable property data)

10 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: 122:106502

REFERENCE 2: 121:301287

REFERENCE 3: P 121:180229

REFERENCE 4: P 121:134806

REFERENCE 5: 120:307286

REFERENCE 6: P 120:135149

REFERENCE 7: P 120:71579

REFERENCE 8: P 117:239845

REFERENCE 9: 117:62356

REFERENCE 10: P 114:183852

L9 ANSWER 77 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 64763-82-2 REGISTRY

CN Bassianolide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane, cyclic peptide deriv.

OTHER NAMES:

CN Cyclo(D-.alpha.-hydroxyisovaleryl-N-methyl-L-leucyl-D-.alpha.-hydroxyisovaleryl-N-methyl-L-leucyl-D-.alpha.-hydroxyisovaleryl-N-methyl-L-leucyl)

FS PROTEIN SEQUENCE

MF C48 H84 N4 O12

LC STN Files: BEILSTEIN*, BIOSIS, CA, MEDLINE, NAPRALERT, TOXLINE, TOXLIT

(*File contains numerically searchable property data)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

REFERENCE 1: 103:116122

REFERENCE 2: 99:115905

REFERENCE 3: 99:115904

REFERENCE 4: 99:48503

REFERENCE 5: 99:33082

REFERENCE 6: 97:518

REFERENCE 7: 96:157316

REFERENCE 8: 96:155383

REFERENCE 9: 94:103802

REFERENCE 10: 93:186770

L9 ANSWER 78 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 42037-15-0 REGISTRY

CN Cyclo(N-methyl-L-alanyl-D-2-hydroxypropanoyl-N-methyl-L-alanyl-D-2-hydroxypropanoyl-N-methyl-L-alanyl-D-2-hydroxypropanoyl-N-methyl-L-alanyl-D-2-hydroxypropanoyl) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane, cyclic peptide deriv.

CN Cyclic(N-methyl-L-alanyl-D-lactoyl-N-methyl-L-alanyl-D-lactoyl-N-methyl-L-alanyl-D-lactoyl-N-methyl-L-alanyl-D-lactoyl)

FS PROTEIN SEQUENCE

MF C28 H44 N4 O12

LC STN Files: CA

DES *

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: 79:19074

L9 ANSWER 79 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 5686-56-6 REGISTRY

CN Cyclo(3-methyl-D-2-hydroxybutanoyl-N-methyl-D-valyl-3-methyl-D-2-hydroxybutanoyl-N-methyl-D-valyl-3-methyl-D-2-hydroxybutanoyl-N-methyl-D-valyl) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane-2,5,8,11,14,17,20,23-octone, 3,6,9,12,15,18,21,24-octaisopropyl-4,10,16,22-tetramethyl-, stereoisomer

CN 1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane, cyclic peptide deriv.

CN Cyclic(D-.alpha.-hydroxyisovaleryl-N-methyl-D-valyl-D-.alpha.-hydroxyisovaleryl-N-methyl-D-valyl-D-.alpha.-hydroxyisovaleryl-N-methyl-D-valyl)

methyl-D-valyl-D-.alpha.-hydroxyisovaleryl-N-methyl-D-valyl)

CN Valine, N-(D-2-hydroxy-3-methylbutyryl)-N-methyl-, tetramol. cyclic ester, D- (8CI)

FS PROTEIN SEQUENCE

MF C44 H76 N4 O12

LC STN Files: BEILSTEIN*, CA, CAOLD

(*File contains numerically searchable property data)

DES *

2 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 78:58777

REFERENCE 2: 66:29078

L9 ANSWER 80 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 4530-22-7 REGISTRY

CN Cyclo(3-methyl-D-2-hydroxybutanoyl-N-methyl-L-valyl-3-methyl-D-2-hydroxybutanoyl-N-methyl-L-valyl-3-methyl-D-2-hydroxybutanoyl-N-methyl-L-valyl) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane, cyclic

peptide deriv.

CN 1,7,13,19-Tetraoxa-4,10,16,22-tetraazacyclotetracosane-2,5,8,11,14,17,20,23-octone, 3,6,9,12,15,18,21,24-octaisopropyl-4,10,16,22-tetramethyl-, stereoisomer

CN Cyclic(D-.alpha.-hydroxyisovaleryl-N-methyl-L-valyl-D-.alpha.-hydroxyisovaleryl-N-methyl-L-valyl-D-.alpha.-hydroxyisovaleryl-N-methyl-L-valyl)

methyl-L-valyl-D-.alpha.-hydroxyisovaleryl-N-methyl-L-valyl)

CN Valine, N-(D-2-hydroxy-3-methylbutyryl)-N-methyl-, tetramol. cyclic ester, L- (8CI)

FS PROTEIN SEQUENCE

MF C44 H76 N4 O12

LC STN Files: BEILSTEIN*, CA, CAOLD

(*File contains numerically searchable property data)

DES *

1 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 83:159393

L9 ANSWER 81 OF 81 REGISTRY COPYRIGHT 1995 ACS

RN 2503-08-4 REGISTRY

CN Valine, N-(2-hydroxy-3-methylbutyryl)-N-methyl-, tetramol. cyclic ester (7CI, 8CI) (CA INDEX NAME)

FS 3D CONCORD; PROTEIN SEQUENCE

MF C44 H76 N4 O12

LC STN Files: BEILSTEIN*, CAOLD

(*File contains numerically searchable property data)

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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L9
             81 SEA FILE=REGISTRY SSS FUL L7
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             33 SEA FILE=CA L9
   d bib abs hitrn 110 1-33; fil caold caprev; s 19
/L10
     ANSWER 1 OF 33
                    CA COPYRIGHT 1995 ACS
AN
     122:160697 CA
TI
     Preparation of octacyclodepsipeptides as endoparasiticides
IN
     Scherkenbeck, Juergen; Jeschke, Peter; Lerchen, Hans-Georg;
     Hagemann, Hermann; Harder, Achim; Mencke, Norbert; Plant, Andrew
PA
     Bayer A.-G., Germany
     Eur. Pat. Appl., 46 pp.
SO
     CODEN: EPXXDW
PΙ
     EP 626375 A1 941130
DS
        AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, SE
AΙ
     EP 94-107543 940516
PRAI DE 93-4317457. 930526
DT
     Patent
LA
     German
OS
     MARPAT 122:160697
GI
```

Title compds. [I; R1, R2, R11, R12 = (cyclo)alkyl, haloalkyl, AB aryl(alkyl); R3,R5,R7,R9 = H, alkyl, aryl(alkyl), etc.; R4, R6, R8, R10 = H, alk(en)yl, aryl(alkyl), etc.] were prepd. Thus, I (R1 = R2 = R5 = R9 = R11 = R12 = Me, R3 = R7 = CH2Ph, R4 = R6 = R8 = R10 =CHMe2) gave complete control of Haemonchus contortus in sheep at 5mg/kg orally.

IT 161119-85-3P 161119-86-4P 161119-87-5P 161119-88-6P 161119-89-7P 161119-90-0P 161119-91-1P 161119-92-2P 161119-93-3P 161119-94-4P 161119-95-5P 161170-63-4P

(prepn. of octacyclodepsipeptides as endoparasiticides)

CA COPYRIGHT 1995 ACS **L10** ANSWER 2 OF 33

AN 122:106502 CA

Synthesis of PF1022A, an anthelmintic cyclodepsipeptide TI

AU Dutton, Fred E.; Nelson, Stephen J.

CS Upjohn Laboratories, Upjohn Co., Kalamazoo, MI, 49001, USA

J. Antibiot. (1994), 47(11), 1322-7 SO CODEN: JANTAJ; ISSN: 0021-8820

TT Journal

LA English

AB Anthelmintic cyclodepsipeptide PF1022A, cyclo(MeLeu-Lac-MeLeu-PheLac)2 (MeLeu = N-methyl-L-leucine, Lac = D-lactic acid, PheLac = 3-phenyl-D-lactic acid) has been prepd. in eleven steps from Boc-MeLeu-OH (Boc = Me3CO2C), benzyl 3-phenyl-D-lactate, and benzyl D-lactate.

IT 133413-70-4P, PF 1022

(prepn. of anthelmintic cyclodepsipeptide PF 1022)

L10 ANSWER 3 OF 33 CA COPYRIGHT 1995 ACS

AN 122:104043

Anthelmintic cyclic dipsipeptide F1022E manufacture with TI nonspore-forming mold

Ooyama, Makoto; Okada, Yumiko; Nakagawa, Koji; Takagi, Masayuki; IN Okada, Tadaaki; Murai, Yasushi; Yoneda, Toshio; Iinuma, Katsuharu PA Meiji Seika Co., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

PI JP 06184126 A2 940705 Heisei

AI JP 92-279094 921019

DT Patent

LA Japanese

GI

AB The anthelmintic cyclic dipsipeptide F1022E (I) is manufd. by culturing nonspore-forming mold F1022E. Shake culture of the nonspore-forming mold F1022E in a medium contg. glucose, starch, wheat germ, etc., and purifn. of I from the mycelium by extn. and chromatog. were shown. The physicochem., characteristics of I were given.

Ι

IT 158792-28-0P, PF 1022E

(anthelmintic cyclic dipsipeptide F1022E manuf. with nonspore-forming mold)

L10 ANSWER 4 OF 33 CA COPYRIGHT 1995 ACS

AN 121:301287 CA

TI Total synthesis of the anthelmintic cyclodepsipeptide, PF1022A

AU Ohyama, Makoto; Iinuma, Katsuharu; Isogai, Akira; Suzuki, Akinori

CS Faculty Agriculture, University Tokyo, Tokyo, 113, Japan

SO Biosci., Biotechnol., Biochem. (1994), 58(6), 1193-4

CODEN: BBBIEJ; ISSN: 0916-8451

DT Journal

LA English

The anthelmintic cyclooctadepsipeptide PF1022A and its antipode were synthesized starting from Boc-L-Leu (Boc = Me3CO2C) (for PF1022A), Boc-D-Leu (for the antipode), L-lactic acid, and L-phenyllactic acid using the Mitsunobu reaction and/or the DCC/1-hydroxybenzotriazole (HOBt) method. The antipode had no anthelmintic efficacy.

IT 133413-70-4P, PF 1022A 159247-20-8P,

Cyclo(L-2-hydroxypropanoyl-N-methyl-D-leucyl-3-phenyl-L-2-hydroxypropanoyl-N-methyl-D-leucyl-L-2-hydroxypropanoyl-N-methyl-D-

7 1

leucyl-3-phenyl-L-2-hydroxypropanoyl-N-methyl-D-leucyl)
 (prepn. and anthelmintic activity of)

ANSWER 5 OF 33 CA COPYRIGHT 1995 ACS

AN 121:180229 CA

TI Preparation of the depsipeptide PF 1022

IN Ooyama, Makoto; Yoneda, Toshio; Iinuma, Katsuharu; Okada, Tadaaki

PA Meiji Seika Co, Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

PI JP 05320148 A2 931203 Heisei

AI JP 92-131139 920522

DT Patent

LA Japanese

GI

L10

AB The title compd. (I) was prepd. by the soln. method from D-phenylalanine, BOC-Leu-OH, and MeI and cyclization of the intermediate L-N-Me.cntdot.Leu-D-lac-L-N-Me.cntdot.Leu-D-phe.cntdot.lac-L-N-Me.cntdot.Leu-D-phe.cntdot.lac-OH.

IT 133413-70-4P, PF 1022

(prepn. of, from phenylalanine, leucine derivs., and Me iodide)

Ι

L10 ANSWER 6 OF 33 CA COPYRIGHT 1995 ACS

AN 121:134806 CA

TI Preparation of depsipeptides derivatives as anthelmintics

IN Nishiyama, Hitoshi; Ohgaki, Masaru; Yamanishi, Ryo; Hara, Toshihiko

PA Fujisawa Pharmaceutical Co., Ltd., Japan

SO PCT Int. Appl., 118 pp.

CODEN: PIXXD2

PI WO 9319053 A1 930930

DS W: AU, CA, JP, NO, NZ, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

AI WO 93-JP286 930308

PRAI JP 92-92070 920317 JP 92-305093 921015

DT Patent

LA Japanese :

OS MARPAT 121:134806

GI

Ι

MeLeu-D-Lac-

ΙI

Title compds. I [A, A1 = substituted benzyl, substituted phenyl; B, D = alkyl; C = H, alkyl] are prepd. A soln. of BOC-MeLeu-D-p-MeOPhLac-MeLeu-D-Lac-MeLeu-D-p-MeOPhLac-MeLeu-D-Lac-OC6F5 [Lac = lactic acid residue] (prepn. given) in CH2Cl2 was stirred for 2 h, the product was dissolved in dioxane, the soln. was heated at 90.degree. and then added to pyridine, the resulting mixt. was stirred for 2.5 h to give the title compd. II. This at 2.5 mg/Kg p. o. showed .gtoreq.95% control of Nippostrongylus brasiliensis in rats.

IT 133413-70-4P 155030-60-7P 155030-61-8P 155030-62-9P 155030-63-0P 155030-64-1P 155030-65-2P 155030-66-3P 155030-67-4P 155030-68-5P 155030-69-6P 155030-70-9P 155030-71-0P 155030-72-1P 155030-73-2P 155030-74-3P 155030-75-4P 155030-76-5P 155030-77-6P 155030-81-2P 155030-82-3P 155030-83-4P 155030-84-5P 155030-85-6P 155155-40-1P 155213-39-1P (prepn. of, as anthelmintic)

AN 120:307286 CA

ANSWER 7 OF 33

L10

TI The crystal and molecular structure of PF 1022A

CA COPYRIGHT 1995 ACS

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AU Kodama, Yoshio; Takeuchi, Yasuo; Suzuki, Akira
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CS Pharm. Res. Lab., Meiji Seika Kaisha Ltd., Yokohama, 222, Japan

Meiji Seika Kenkyu Nenpo (1992), 31, 1-8 CODEN: MSKNA9; ISSN: 0465-6105

DT Journal

SO

LA English

AB PF 1022A is a cyclic octadepsipeptide antibiotic which also has potent anthelmintic activity. X-ray structure anal. of 2 different kinds of crystals which were obtained from methanol and acetone soln. was reported and the mol. conformation was discussed. PF 1022A had one cis-form of 4 amide bonds and entirely trans-form ester bonds, and the mol. conformations in the 2 crystals were the same. The dissolved crystal structure seemed to be the most stable conformer which was consistent with the result from conformational anal. of energetic calcns.

IT/ 133413-70-4, PF 1022

(crystal and mol. structure of)

 $^{\prime}$ L10 ANSWER 8 OF 33 CA COPYRIGHT 1995 ACS

AN 120:135149 CA

TI Preparation of a cyclic depsipeptide as an anthelmintic.

IN Nishama, Hitoshi; Oogaki, Masaru

PA Fujisawa Pharmaceutical Co, Japan

SO Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

PI JP 05229997 A2 930907 Heisei

AI JP 92-194250 920721

PRAI JP 91-295294 910823

DT Patent

LA Japanese

OS CASREACT 120:135149; MARPAT 120:135149

GI

The title peptide (I), useful as an anthelmintic (no data), is prepd. in high yield and low cost by cyclization of MeNHCH(iso-Bu)CO2CH(CH2Ph)CONMeCH(iso-Bu)CO2CHMeCONMeCH(iso-Bu)CO2CHMeCO2H or its reactive deriv. or salt in the presence of a base. Thus, Boc-MeLeu-D-PhLac-MeLeu-D-Lac-MeLeu-D-PhLac-MeLeu-D-Lac-OH (PhLac = OCH(CH2Ph)CO, Lac = OCHMeCO) (prepn. given) was esterified with pentafluorophenol using 1-ethyl-2-(3-diethylaminopropyl)carbodiimide in CH2Cl2 to give, after N-deprotection with CF3CO2H in CH2Cl2 under ice-cooling, H-MeLeu-D-PhLac-MeLeu-D-Lac-MeLeu-D-PhLac-MeLeu-D-Lac-OC6F5.CF3CO2H

Ι

which was dissolved in DMF and added to pyridine over 2.5 h at 90.degree. to give, after stirring at 90.degree. for 15.5 h, cyclo(MeLeu-D-PhLac-MeLeu-D-Lac-MeLeu-D-PhLac-MeLeu-D-Lac).
IT 133413-70-4P

(prepn. of, as anthelmintic, intermediates and high-yield process for)

L10 ANSWER 9 OF 33 CA COPYRIGHT 1995 ACS

AN 120:71579 CA

TI Insecticides containing cyclic depsipeptide as an active ingredient.

IN Imamura, Keiichi; Takagi, Masayuki; Iwata, Michiaki; Okada, Tadaaki

PA Meiji Seika Co, Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

PI JP 05271013 A2 931019 Heisei

AI JP 92-71463 920327

DT Patent

LA Japanese

AB Insecticides, useful in agriculture or environmental hygiene, contain the cyclic depsipeptide PF 1022 as an active ingredient. PF 1022 (at 500 ppm) showed 100% lethality to silkworm larvae within 6 days. An aq. liq. comprised PF 1022 1.25, N-methylpyrrolidone 50, polyoxyethylene alkyl ethers 12.5, propylene glycol fatty acid esters 12.5, and H2O 23.75 wt. parts.

IT 133413-70-4, PF 1022 (insecticide)

L10 ANSWER 10 OF 33 CA COPYRIGHT 1995 ACS

AN 119:224429 CA

TI Isolation of anthelmintic cyclic depsipeptides from nonspore-forming microorganism

IN Sasaki, Tooru; Kuwata, Maki; Shimizu, Akira; Takagi, Masayuki; Kubota, Hidetoshi; Okada, Tadaaki; Uotani, Kazumichi; Koyama, Masao

PA Meiji Seika Co, Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp. CODEN: JKXXAF

PI JP 05170749 A2 930709 Heisei

AI JP 91-163085 910703

PRAI JP 91-82631 910415

DT Patent

LA Japanese

GI

Ι

AB Cyclic depsipeptide PF1022B (I; R1 = R2 = CH2Ph, R3 = Me), PF1022C I (R1 = R2 = R3 = CH2Ph), and PF1022D I (R1 = R2 = R3 = Me), useful as anthelmintics (no data), are manufd. by culture of nonspore-forming filamentous microorganism PF1022 strain, extn. of the microorganism with MeOH, EtOAc, and hexane-MeCN, and purifn. using silica gel and Sephadex LH-20 column chromatog. and HPLC. IR and 1H-NMR (400 MHz) spectra of I are recorded.

IT 150749-51-2P, PF 1022B 150749-52-3P, PF 1022C

150749-53-4P, PF 1022D

(manuf. of, with nonspore-forming microorganism PF1022 strain, as anthelmintic)

L10 ANSWER 11 OF 33 CA COPYRIGHT 1995 ACS

AN 117:239845 CA

TI Pharmaceutical compositions containing an anthelmintic cyclic depsipeptide

IN Uomoto, Katsuhito; Shomura, Tomoko; Matsumoto, Mitsuyo; Takagi, Masayuki; Shimizu, Takao; Kiriya, Susumu

PA Meiji Seika Kaisha, Ltd., Japan

SO Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

PI EP 503538 A1 920916

DS R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE

AI EP 92-104005 920309

PRAI JP 91-43461 910308

DT Patent

LA English

AB The title compn. comprises a water-insol. anthelmintic compd. such as PF1022 and .gtoreq.1 compd. selected from nonionic surfactants, fats, oils, and optionally with .gtoreq.1 aq. solvent, wherein the total content of the additives is 5-50 parts. The compn. makes it possible to elevate water-soly. of the anthelmintic compd. and thus enhances its anthelmintic effects. Polyoxyethylene hydrogenated castor oil, polyethylene glycol, and soybean oil were heated to

60.degree., then PF1022 substance was slowly added thereto and was dissolved by stirring. The soln. thus obtained was slowly added to a exptl. diet for cattle.

AT 133413-70-4; PF 1022

公路 辩 不知

(anthelmintic contg., sol., for cattle)

L10 ANSWER 12 OF 33 CA COPYRIGHT 1995 ACS

AN 117:62356 CA

TI A new anthelmintic cyclodepsipeptide, PF1022A

AU Sasaki, Toru; Takagi, Masayuki; Yaguchi, Takasi; Miyadoh, Shinji; Okada, Tadaaki; Koyama, Masao

CS Pharm. Res. Lab., Meiji Seika Kaisha Ltd., Yokohama, 222, Japan

SO J. Antibiot. (1992), 45(5), 692-7 CODEN: JANTAJ; ISSN: 0021-8820

DT Journal LA English

GI

The novel anthelmintic cyclodepsipeptide PF1022A was isolated from cultured mycelia of Mycelia Sterilia PF1022 (FERM BP-2671). It showed strong anthelmintic activities against Ascaridia galli in chickens. The structure of PF1022A was detd. to be cyclo(D-lactyl-L-N-methylleucyl-D-3-phenyllactyl-L-N-methylleucyl-D-lactyl-L-N-methylleucyl-D-3-phenyllactyl-L-N-methylleucyl, I) by spectroscopic analyses and chem. studies.

Ι

IT 133413-70-4, PF 1022A

(anthelmintic activity and structure of)

L10 ANSWER 13 OF 33 CA COPYRIGHT 1995 ACS

AN 114:183852 CA

TI Antihelminthic PF 1022 manufactured with an Agonomycete (mycelia sterilia)

IN Takagi, Masayuki; Okada, Tadaaki; Akai, Naotoshi; Yaguchi, Takashi; Miyadoh, Shinji; Shomura, Takashi; Sasaki, Toru; Sezaki, Masaji; Shimizu, Takao; Niida, Masashi

PA Meiji Seika Kaisha, Ltd., Japan

SO Eur. Pat. Appl., 20 pp.

CODEN: EPXXDW

PI EP 382173 A2 900816

DS R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE

AI EP 90-102328 900206

PRAI JP 89-26739 890207

DT Patent

LA English

GI

AB Anthelmintic PF 1022 (I) that is useful for treatment or prevention of parasitic infection of animals is manufd. with an Agonomycete (mycelia sterilia). Agonomycete PF 1022 was cultured in 35 L medium contg. starch syrup, soybean oil, wheat germ, soybean cake, yeast, and salts for 5 days at 26.degree. with aeration and stirring. I 24.9 mg was recovered from the culture filtrate after extn. with acetone and Et acetate and chromatog. Anthelmintic activity of I in a variety of animals, e.g., chickens artificially infected with roundworms (Ascardia galli), was demonstrated.

I

IT 133413-70-4P, PF 1022

(manuf. of, with Agonomycete PF1022, as anthelmintic)

L10 ANSWER 14 OF 33 CA COPYRIGHT 1995 ACS

AN 103:116122 CA

TI Effects of bassianolide on the muscle contraction induced by electrical stimulation in the guinea-pig hypogastric nerve-vas deferens preparation

AU Nakajo, Shinjiro; Shimizu, Koji; Shimizu, Kazumasa; Urakawa, Norimoto

CS Dep. Vet. Pharmacol., Nippon Vet. Zootech. Coll., Japan

SO Nippon Jui Chikusan Daigaku Kenkyu Hokoku (1984), 33, 63-70 CODEN: NCDHDS

DT Journal

LA Japanese

AB Bassianolide [64763-82-2] (1 .times. 10-5M) applied to the nerve-vas deferens prepn. inhibited hypogastric nerve-induced contraction but did not inhibit the transmurally induced contraction. The potency of bassianolide was less than those of depolarizing ganglion blocking agents such as 1,1-dimethyl-4-phenylpiperazinium and nicotine.

IT 64763-82-2

(muscle contraction inhibition by)

- L10 ANSWER 15 OF 33 CA COPYRIGHT 1995 ACS
- AN 99:115905 CA
- TI Effects of bassianolide on muscarinic and nicotinic responses to acetylcholine in various tissue preparations
- AU Nakajyo, Shinjiro; Shimizu, Kazumasa; Kometani, Atsuko; Yuyama, Akira; Kobayashi, Haruo; Suzuki, Akinori; Urakawa, Norimoto
- CS Dep. Vet. Pharmacol., Nippon Vet. Zootech. Coll., Tokyo, Japan
- SO Nippon Jui Chikusan Daigaku Kenkyu Hokoku (1982), 31, 40-50 CODEN: NCDHDS
- DT Journal
- LA English
- AB Bassianolide (I) [64763-82-2] inhibited acetylcholine [51-84-3]-induced contractions in the guinea pig ileal longitudinal muscle and vas deferens, but did not inhibit acetylcholine-induced contractions in the frog rectus abdominis muscle or twitches in the frog sciatic nerve-sartorius prepn. or mouse nerve-diaphragm prepn. I had no effect on quinuclidinyl and bungarotoxin binding to muscarinic and nicotinic receptors, resp.

IT 64763-82-2

(muscarinic and nicotinic action of acetylcholine response to)

- L10 ANSWER 16 OF 33 CA COPYRIGHT 1995 ACS
- AN 99:115904 CA
- TI The effect of bassianolide on a nicotine-induced contraction in isolated smooth and skeletal muscle preparations
- AU Nakajyo, Shinjiro; Shimizu, Kazumasa; Kometani, Atsuko; Isogai, Akira; Urakawa, Norimoto
- CS Dep. Vet. Pharmacol., Nippon Vet. Zootech. Coll., Tokyo, Japan
- SO Nippon Jui Chikusan Daigaku Kenkyu Hokoku (1982), 31, 33-9 CODEN: NCDHDS
- DT Journal
- LA English
- AB Bassianolide (I) [64763-82-2] inhibited nicotine [54-11-5]-induced contractions in the guinea pig ileal longitudinal muscle and vas deferens, but not in the frog rectus muscle. I apparently interacts with effects of nicotine involving N1, but not those involving N2 receptors.

IT 64763-82-2

(muscle contraction response to nicotine and)

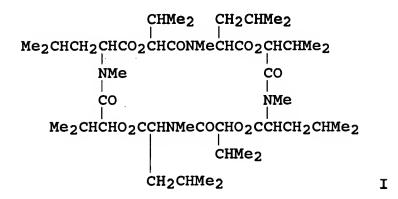
- L10 ANSWER 17 OF 33 CA COPYRIGHT 1995 ACS
- AN 99:48503 CA
- TI Bassianolide, an insecticidal substance produced by an insect-pathogenic fungus
- AU Isogai, Akira
- CS Fac. Agric., Univ. Tokyo, Tokyo, 113, Japan
- SO Kagaku to Seibutsu (1983), 21(3), 200-2

CODEN: KASEAA; ISSN: 0453-073X

DT Journal; General Review

LA Japanese

GI



A review with 11 refs. on the structure and activities toward AB silkworms and mammals of bassianolide (I) [64763-82-2] and the properties and biol. activities of its related compds.

IT 64763-82-2 64763-82-2D, derivs

(toxicity and properties of)

L10 ANSWER 18 OF 33 CA COPYRIGHT 1995 ACS

AN 99:33082 CA

On the inhibitory mechanism of bassianolide, a cyclodepsipeptide, in TI acetylcholine-induced contraction in guinea pig taenia coli

Nakajyo, Shinjiro; Shimizu, Kazumasa; Kometani, Atsuko; Suzuki, AU Akinori; Ozaki, Hiroshi; Urakawa, Norimoto

Dep. Veterinary Pharmacol., Nippon Vet. Zootech. Coll., Tokyo, 180, CS Japan

SO Jpn. J. Pharmacol. (1983), 33(3), 573-82 CODEN: JJPAAZ; ISSN: 0021-5198

DT Journal

LA English

The effect of bassianolide (BASS) [64763-82-2] was AB investigated on mech. response, membrane potential, intracellular Na and K contents, and 45Ca uptake in response to acetylcholine (ACh) [51-84-3] in guinea pig tenia coli. BASS (10-5M) as well as verapamil (5 .times. 10-7M) and papaverine (3 .times. 10-5M) selectively inhibited the tonic component of the contraction induced by ACh (10-5M), but scarcely affected the phasic one. In contrast, atropine (3 .times. 10-8M) inhibited both components of contraction BASS did not modify the change in membrane potential by ACh. ACh, and the combination of both did not influence the intracellular Na and K contents and the 45Ca uptake. Thus, BASS seems unlikely to have the property of an ionophore. BASS slightly inhibited both the tonic and phasic components of contraction induced by 60 mM K in a nonselective manner, though verapamil and papaverine inhibited the tonic component more potently than the phasic one. Verapamil decreased the increased 45Ca uptake in the muscle soaked in 60 mM K medium, but BASS did not. Since BASS selectively inhibits the tonic component of the ACh-induced contraction, the inhibitory mechanism of BASS seems to be different from that of verapamil, papaverine, or

世界縣 诗句生 计相

atropine; and the mechanism may be beyond the interactions with a binding activity of ACh to the muscarinic receptor, membrane potential and the contractile machinery of the intestinal smooth muscle.

IT 64763-82-2

(acetylcholine-induced intestine contraction inhibition by)

L10 ANSWER 19 OF 33 CA COPYRIGHT 1995 ACS

AN 97:518 CA

- TI Effects of bassianolide on drug-induced contractions of isolated guinea pig aorta
- AU Nakajyo, Shinjiro; Kometani, Atsuko; Shimizu, Kazumasa; Urakawa, Norimoto
- CS Dep. Vet. Pharmacol., Nippon Vet. Zootech. Coll., Musashino, Japan
- SO Nippon Jui Chikusan Daigaku Kenkyu Hokoku (1981), 30, 71-6 CODEN: NCDHDS
- DT Journal
- LA Japanese
- AB bassianolide [64763-82-2] Inhibited norepinephrine- and phenylephrine-induced guinea pig aorta contractions and shifted the concn.-response curve to the right. The drug also inhibited contractions induced by membrane depolarization with K+, Ba2+ or Et4N+.

IT 64763-82-2

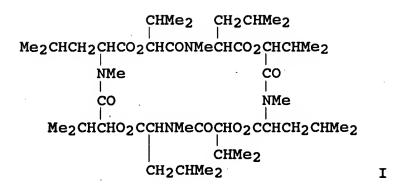
(aorta contraction inhibition by)

- L10 ANSWER 20 OF 33 CA COPYRIGHT 1995 ACS
- AN 96:157316 CA
- TI Biochemical and pharmacological studies of the insecticidal cyclodepsipeptides destruxins and bassianolide produced by entomopathogenic fungi
- AU Abalis, Ibrahim Mohammed
- CS Cornell Univ., Ithaca, NY, USA
- SO (1981) 198 pp. Avail.: Univ. Microfilms Int., Order No. 8129664 From: Diss. Abstr. Int. B 1982, 42(8), 3108-9
- DT Dissertation
- LA English
- AB Unavailable
- IT 64763-82-2

(biochem. and pharmacol. of, in insect control)

- L10 ANSWER 21 OF 33 CA COPYRIGHT 1995 ACS
- AN 96:155383 CA
- TI Inhibitory effect of bassianolide, a cyclodepsipeptide, on drug-induced contractions of isolated smooth muscle preparations
- AU Nakajyo, Shinjiro; Shimizu, Kazumasa; Kometani, Atsuko; Kato, Kohji; Kamizaki, Junji; Isogai, Akira; Urakawa, Norimoto
- CS Dep. Vet. Pharmacol., Nippon Vet. Zootech. Coll., Tokyo, 180, Japan
- SO Jpn. J. Pharmacol. (1982), 32(1), 55-64 CODEN: JJPAAZ; ISSN: 0021-5198
- DT Journal
- LA English

GI



In a longitudinal muscle prepn. from guinea pig ileum, 10-6 M AB bassianolide (I)(BASS) [64763-82-2] almost irreversibly inhibited an isotonic contraction induced by acetylcholine (ACH) [51-84-3] and made the dose-response curve shift in parallel to the right (pA2: 7.6). It also inhibited the contractions induced by carbachol [51-83-2], pilocarpine [92-13-7], histamine [51-45-6], [50-67-9] and prostaglandin E2 [363-24-6] but did not inhibit 5-HT the contraction induced by Ba or a high concn. (40-60 mM) of K. When applied to the guinea pig vas deferens, 10-8-10-7 M BASS inhibited an isometric contraction induced by norepinephrine bitartrate (NE) [51-40-1] (3 .times. 10-6-10-5M), phenylephrine [59-42-7] (3 .times. 10-6-10-5 M) or ACH (10-6-10-5 M). When the contraction of the 3 agonists exceeded the concns. mentioned above, BASS failed to exert an inhibitory effect upon any of these agonists. It also inhibited the contraction caused by carbachol and histamine, but did not inhibit that induced by Ba or high K. itself failed to cause the contraction or relaxation of both muscle prepns. Apparently, BASS inhibits the contraction induced by an agonist which acts upon selective sites of smooth muscle cells, but which does not inhibit a contraction induced by an agonist that has an effect on non-selective sites of cells.

IT 64763-82-2

GI

(drug-induced smooth muscle contraction response to)

L10 ANSWER 22 OF 33 CA COPYRIGHT 1995 ACS AN 94:103802 CA TI Bassianolide: syntheses of its analogs and NMR studies Isogai, Akira; Kanaoka, Masaharu; Suzuki, Akinori AU Dep. Agric. Chem., Univ. Tokyo, Tokyo, 113, Japan CS Pept. Chem. (1979), Volume Date 1978, 16th, 165-70 SO CODEN: PECHDP DT Journal LA English

AB Bassianolide analogs I (R-R2 = Me, R3 = H; R = R1 = Me, R2 = R3 = H; R = R2 = Me, R1 = R3 = H; R = Me, R-R3 = H) were prepd. by cyclizing the corresponding linear peptides by the acid chloride method in benzene under high diln. Conformations of bassianolide (I, R-R3 = Me) (II) and the above analogs were detd. by NMR data. In soln. II exists as 2 conformations which undergo interconversion by cis-trans isomerization of amide bonds. Enniatin C and decarbassinolide were also prepd. None of the synthetic analogs exhibited insecticidal activity; therefore, all 4 N-Me groups and the ring size are essential for the biol. activity of II.

Ι

IT 64763-82-2P

(prepn. and conformation of)

L10 ANSWER 23 OF 33 CA COPYRIGHT 1995 ACS

AN 93:186770

TI Field desorption mass spectrometry of antibiotics. II. Peptide antibiotics

AU Fukushima, Kazutaka; Arai, Tadashi

CS

Res. Inst. Chemobio-dyn., Chiba Univ., Chiba, Japan Shitsuryo Bunseki (1979), 27(2), 107-16 SO

CODEN: SHIBAK; ISSN: 0542-8645

DT Journal

LA English

AB The field desorption mass spectra were measured for amino acid-related antibiotics acidomycin, actinoboline, azaserine, cycloserine, 6-diaza-5-oxo-L-norleucine, enteromycin, and primocarcin and for peptide antiobiotics leupeptin Ac, althiomycin, pepstatin A, edeine B1, mikamycin B, etamycin, valinomycin, bassianolide, and actinomycin D.

IT 64763-82-2

(field desorption mass spectrum of)

L10 ANSWER 24 OF 33 CA COPYRIGHT 1995 ACS

- Bassianolide, an insecticidal cyclodepsipeptide produced by TI entomopathogenic fungi
- Kanaoka, Masaharu; Isogai, Akira; Suzuki, Akinori; Tamura, Saburo Dep. Agric. Chem., Univ. Tokyo, Tokyo, 113, Japan AU
- CS
- SO Pept. Chem. (1978), Volume Date 1977, 15th, 109-14 CODEN: PECHDP
- DTJournal; General Review
- LA English
- AB A review with 5 refs. of the isolation, structure, and chem. synthesis of bassianolide, an insecticidal cyclodepsipeptide produced by Beauveria bassiana and Verticillium lecanii, 2 entomopathogenic fungi.

IT 64763-82-2

(isolation and structure of)

- L10 ANSWER 25 OF 33 CA COPYRIGHT 1995 ACS
- AN
- TI Gushing-inducing peptides in beer produced by Penicillium chrysogenum
- Kitabatake, Katsuaki; Fukushima, Shuji; Kawasaki, Ichiro; Amaha, AU Mikio
- Cent. Res. Lab., Asahi Brew. Ltd., Tokyo, 143, Japan CS
- SO Pept. Chem. (1980), Volume Date 1979, 17th, 7-12 CODEN: PECHDP
- DT Journal
- LA English
- AB A cyclic peptide that induced gushing in bottled beer was isolated from culture filtrates of P. chrysogenum. It was identified as cyclo-D-Val-L-Val-D-Phe-L-Phe (I) [24181-12-2]. Another factor inducing beer gushing was isolated that was a mixt. of I and other tetrapeptides contg. valine, phenylalanine, and tyrosine. The gushing caused by several natural and synthetic peptides was examd. and the results are tabulated. Cyclic structure was important; little or no qushing was induced by linear peptides.

IT 64763-82-2

(beer gushing induction by)

- ANSWER 26 OF 33 CA COPYRIGHT 1995 ACS L10
- AN 92:6904 CA
- TI Syntheses of bassianolide and its two homologs, enniatin C and decabassianolide
- Kanaoka, Masaharu; Isogai, Akira; Suzuki, Akinori AU
- Dep. Agric. Chem., Univ. Tokyo, Tokyo, 113, Japan CS
- SO Agric. Biol. Chem. (1979), 43(5), 1079-83 CODEN: ABCHA6; ISSN: 0002-1369
- DT Journal
- LA English
- GI

Bassianolide [I; HyIv = OCH(CHMe2)CO, MeLeu = N-methylleucyl, n = 4] (II), an insecticidal cyclodepsipeptide from entomopathogenic fungi, was prepd. by coupling Z-MeLeu-D-HyIv-MeLeu-D-HyIv-OH (Z = PhCH2O2C) to H-MeLeu-D-HyIv-MeLeu-D-HyIv-OCMe3 by PC15, deblocking the resulting Z-(MeLeu-D-HyIv)4-OCMe3 by HBr/AcOH, and cyclizing the resulting H-(MeLeu-D-HyIv)4-OH.HBr by PC15 in benzene contg. Et3N under high diln. Enniatin C (I, n = 3) and decabassianolide (I, n = 5) were prepd. similarly. The physiochem. properties and biol. activities of these synthetic compds. unambiguously established II as the structure for bassianolide.

IT 64763-82-2P

(total synthesis of)

- L10 ANSWER 27 OF 33 CA COPYRIGHT 1995 ACS
- AN 89:6532 CA
- TI Synthesis of bassianolide
- AU Kanaoka, Masaharu; Isogai, Akira; Suzuki, Akinori
- CS Dep. Agric. Chem., Univ. Tokyo, Tokyo, Japan
- SO Tetrahedron Lett. (1977), (46), 4049-50 CODEN: TELEAY; ISSN: 0040-4039
- DT Journal
- LA English
- Bassianolide, cyclo[D-Hyiv-MeLeu]4 [Hyiv = OCH(CHMe2)CO], was prepd by coupling PhCH2O2C-MeLeu-D-Hyiv-MeLeu-D-Hyiv-OH to H-MeLeu-D-Hyiv-MeLeu-D-Hyiv-OCMe3, deblocking the resulting protected octapeptide with HBr/HOAc, and cyclizing the resulting H-[MeLeu-D-Hyiv]4-OH.HBr by the acid chloride method in benzene under highly diluted conditions.

IT 64763-82-2P

(total synthesis of)

- L10 ANSWER 28 OF 33 CA COPYRIGHT 1995 ACS
- AN 88:184593 CA
- TI Bassianolide, a new insecticidal cyclodepsipeptide from Beauveria bassiana and Verticillium lecanii
- AU Kanaoka, Masaharu; Isogai, Akira; Murakoshi, Shigeo; Ichinoe, Masakatsu; Suzuki, Akinori; Tamura, Saburo
- CS Dep. Agric. Chem., Univ. Tokyo, Tokyo, Japan
- SO Agric. Biol. Chem. (1978), 42(3), 629-35 CODEN: ABCHA6; ISSN: 0002-1369
- DT Journal
- LA English
- AB A new insecticidal cyclodepsipeptide, bassianolide [
 64763-82-2] was isolated from the mycelia of 2 entomophagous
 fungi and its structure was elucidated. Silkworm larvae exhibited
 an atonic symptom and were killed by the administration of >8 ppm
 bassianolide.

IT 64763-82-2

(structure and insecticidal activity of, against silkworm)

- L10 ANSWER 29 OF 33 CA COPYRIGHT 1995 ACS
- AN 87:184951 CA
- TI Bassianolide, a new insecticidal cyclodepsipeptide from Beauveria bassiana and Verticillium lecanii
- AU Suzuki, Akinori; Kanaoka, Masaharu; Isogai, Akira; Murakoshi, Shigeo; Ichinoe, Masakatsu; Tamura, Saburo
- CS Dep. Agric. Chem., Univ. Tokyo, Tokyo, Japan

- SO Tetrahedron Lett. (1977), (25), 2167-70 CODEN: TELEAY
- DT Journal LA English
- The structure of the title compd. (I) was elucidated by phys. and chem. methods as a cyclodepsipeptide composed of four D-.alpha.-hydroxyisovaleryl-L-N-methylleucyl units. NMR studies suggested the presence of five such units; the discrepancy may be due to the presence of conformers. Pure I was sepd. by chromatog. from a neutral fraction of a B. bassiena culture ext. Treatment of I with LiBH4 gave D-.alpha.-hydroxyisovaleryl-L-N-methylleucinol whose structure was confirmed by synthesis. Fifth instar larvae of Bombyx mori were killed when fed with an artificial diet contg. 13 ppm I.

IT 64763-82-2P

(from Beauveria bassiana and Verticillium lecanii, structure of)

- L10 ANSWER 30 OF 33 CA COPYRIGHT 1995 ACS
- AN 83:159393 CA
- TI Conformational factors in the complexation of enniatin ionophors with alkaline cations
- AU Mikhaleva, I. I.; Evstratov, A. V.; Ivanov, V. T.; Ovchinnikov, Yu. A.
- CS M. M. Shemyakin Inst. Chem. Nat. Prod., Moscow, USSR
- Pept., Proc. Eur. Pept. Symp., 12th (1973), Meeting Date 1972, 346-52. Editor(s): Hanson, Horst; Jakubke, Hans-Dieter. Publisher: North-Holland, Amsterdam, Neth. CODEN: 31FTAU
- DT Conference
- LA English
- The stability consts. were detd. for complexes of enniatins A, B, AB and C, beauvericin, and 16 other cyclodepsipeptides related to these antibiotics with Li+, Na+, K+, Rb+, and Cs+. Modification of the 4 parent antibiotics by substitution of the iso-Pr side chains by other alkyl radicals did not cause drastic changes in the stability of the complexes; the most stable complexes were with K+ and Rb+ and the least stable with Li+ and Na+. Six diastereomers of enniatin B had lower complexing capacities than the parental antibiotics. Enniatin B analogs, formed by substitution of all of the polar N-methylamide groups by amide or ester groups, had complexing abilities similar to that of enniatin B. A tetradepsipeptide analog of enniatin B did not complex alk. metal cations, apparently because it possesses a rigid structure with the cis-N-methylamide and trans-ester carbonyls oriented toward the periphery of the mol. Increasing the ring size of the N-desmethyl analog of enniatin B by 1 didepsipeptide unit shifted the max. complexing to Cs+ and lengthening by 2 didepsipeptide units caused a sharp decrease in complexing ability. The latter was apparently caused by the ring being too large for efficient ion interaction in the optimal conformation. The analog with the enniatin B cyclic chain lengthened by 1 depsipeptide unit had increased Na+ and K+ and reduced Rb+ and Cs+ complex stability. Further increase in enniatin ring size still resulted in max. stability of the K+ complexes. The above results are discussed in relation to the conformation of the antibiotic analogs. Overall, the enniatin series has a comparatively low structural and cation specificity which are probably related to their conformational flexibility.

IT 4530-22-7

(complexation by, of alk. metal cations, conformational factors

L10 ANSWER 31 OF 33 CA COPYRIGHT 1995 ACS

AN 79:19074 CA

TI Theoretical conformational analysis of cyclic octadepsipeptides

Pletnev, V. Z.; Popov, E. P. AU

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Inst. Khim. Prir. Soedin. im. Shemyakina, Moscow, USSR CS

marity and the

SO Khim. Prir. Soedin. (1973), (2), 220-4 CODEN: KPSUAR

DT Journal

LA Russian

AB Equations were developed for the conformational anal. of cyclic octadepsipeptide (L-AlaMe-D-Lac)4 (AlaMe = MeNCHMeCO, Lac = OCHMeCO), based on non-bonded at. interactions, valence deformation of C, electrostatic interactions, rotational energy, and dipole moments.

IT 42037-15-0

(conformation of, calcn. of)

L10 ANSWER 32 OF 33 CA COPYRIGHT 1995 ACS

AN 78:58777 CA

TI Synthesis and antimicrobial activity of analogs of enniatin antibiotics

AU Shemyakin, M. M.; Ovchinnikov, Yu. A.; Ivanov, V. T.; Evstratov, A. V.; Mikhaleva, I. I.; Ryabova, I. D.

CS USSR

SO Zh. Obshch. Khim. (1972), 42(10), 2320-34 CODEN: ZOKHA4

DT Journal

LA Russian

AB 35 cyclic depsipeptides were prepd. by cyclization of the linear analogs under infinite diln. conditions. The analogs of enniatins A, B, and C and beauvericin differ from the natural antibiotics in ring size, configuration of acid residues, and N-methyl groups. Characterizations of intermediates is presented in tabular form. The Me3CO2C, PhCH2O2C, and p-O2NC6H4CH2O2C protective groups were The antimicrobial activity of the products against a range of Gram-pos. and Gram-neg. and acid-resistant bacteria, as well as some fungi is tabulated. The relation of mol. structure to activity is discussed.

IT 5686-56-6P

(prepn. of)

L10 ANSWER 33 OF 33 CA COPYRIGHT 1995 ACS

AN 66:29078 CA

TI Synthetic and natural cyclodepsipeptides

AU Ivanov, V. T.; Ovchinnikov, Yu. A.; Kiryushkin, A. A.; Shemyakin, M.

CS Acad. Sci. U.S.S.R., Moscow, USSR

SO Pept., Proc. Eur. Symp., 6th (1966), Meeting Date 1963, 337-50 CODEN: 18IIA5

DTConference

LA English

AB Unavailable

IT 5686-56-6P

(prepn. of)

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AN CA64:2157g

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AN CA62:14817h

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AN CA60:2075e

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